

WB-57 #927 10/18/16

Aircraft:

[WB-57 #927](#) (See full schedule)

Flight Number:

10

Payload Configuration:

POSIDON

Nav Data Collected:

No

Total Flight Time:

5.7 hours

Submitted by:

Jasmine Gascar on 10/21/16

Flight Segments:

| | | | |
|---------------------------|---|----------------|------------------|
| From: | PGUM | To: | PGUM |
| Start: | 10/18/16 10:04 Z | Finish: | 10/18/16 15:46 Z |
| Flight Time: | 5.7 hours | | |
| Log Number: | 17W003 | PI: | Eric Jensen |
| Funding Source: | Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program | | |
| Purpose of Flight: | Science | | |
| Comments: | Payloads: MMS, DLH, SID3, CPI, 2DS, SO2, H2O, POPS, WAS, PANTHER AND 03 LITE. SATCOM type was INMARSAT. High flight. Flew SE toward the S/SE boundaries of the outflow from Typhoon Haima in an altitude band of FL480 FL580. On the return trip, the aircraft flew past Guam outbound and returned. A balloon launch occurred at 1400 at the United hangar. Onboard OAT measurements were running on average -74C at altitude. | | |

Flight Hour Summary:

| | 16W007 | 17W003 |
|---|--------|--------|
| Flight Hours Approved in SOFRS | 58 | 42 |
| Flight Hours Previously Approved | | 50.5 |
| Total Used | 7.5 | 90.3 |
| Total Remaining | | 2.2 |

17W003 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining |
|--------------------------|-------|-------------------|----------|---------------|-----------------|
| 10/01/16 | 3 | Ferry | 4.4 | 4.4 | 88.1 |
| 10/02/16 | 4 | Ferry | 5.7 | 10.1 | 82.4 |
| 10/03/16 | 5 | Ferry | 5.9 | 16 | 76.5 |
| 10/09/16 | 6 | Ferry | 4.2 | 20.2 | 72.3 |
| 10/12/16 | 7 | Science | 5.7 | 25.9 | 66.6 |
| 10/14/16 | 8 | Science | 5.3 | 31.2 | 61.3 |
| 10/15/16 | 9 | Science | 4.8 | 36 | 56.5 |
| 10/18/16 | 10 | Science | 5.7 | 41.7 | 50.8 |
| 10/19/16 | 11 | Science | 5.7 | 47.4 | 45.1 |
| 10/21/16 | 12 | Science | 5.6 | 53 | 39.5 |
| 10/24/16 | 13 | Check | 1.3 | 54.3 | 38.2 |
| 10/25/16 | 14 | Science | 4.5 | 58.8 | 33.7 |
| 10/26/16 | 15 | Science | 5.5 | 64.3 | 28.2 |
| 10/28/16 | 16 | Science | 5.4 | 69.7 | 22.8 |
| 10/31/16 | 17 | Ferry | 5.2 | 74.9 | 17.6 |
| 11/01/16 | 18 | Ferry | 5.9 | 80.8 | 11.7 |
| 11/02/16 | 19 | Ferry | 5.6 | 86.4 | 6.1 |
| 11/03/16 | 20 | Ferry | 3.9 | 90.3 | 2.2 |

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Related Science Report:

POSIDON - WB-57 #927 10/18/16 Science Report

Mission:

POSIDON

Mission Summary:

This flight provided extensive sampling of cirrus throughout the TTL, additional tracer measurements in the air mass perturbed by typhoon Haima, sampling of an enhanced SO² layer in the uppermost troposphere that was predicted by GEOS5 chemical transport model, and measurements of a water vapor gradient across the leading edge of TTL cirrus over Guam. Instruments mostly performed well.

File:

[POSIDON_RF04_report.pdf](#)

Submitted by:

Susan Kimi McFadden on 11/11/16

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

16W007 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining |
|--------------------------|-------|-------------------|----------|---------------|-----------------|
| 09/13/16 | 1 | Science | 2.1 | 2.1 | 55.9 |
| 09/15/16 | 2 | Science | 5.4 | 7.5 | 50.5 |